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Kendal. 24th January 1964.

New Synonymy in the Genus *Zygaena* Fabricius (Lepidoptera: Zygaenidae)

By HUGO REISS and W. GERALD TREMEWAN

The preparation of a systematic catalogue of the genus *Zygaena* Fabricius has revealed new synonymy. It should be pointed out that many of the synonyms cited below were originally published by Burgeff (1926a; 1926b) and Reiss (1930; 1933) as new names to replace certain names that were considered by them to be junior, primary homonyms. These names, however, represent aberrations and have no status in nomenclature, and therefore cannot be preoccupied by names which are of subspecific or specific status. Similarly, names of specific or subspecific rank cannot be preoccupied by names of forms or aberrations.

During the course of our work, many junior, primary homonyms have come to hand and new names are proposed for these below.

It is not intended to discuss here the systematic arrangement of the species, subspecies, forms and aberrations. We have merely cited the new synonymy and proposed new names to replace junior, primary homonyms. It is not considered necessary to discuss the regrouping of species and subspecies as this will be shown in the systematic catalogue which, it is to be hoped, will be published in the near future.

It might be appropriate here to draw attention to the dates of publication of two works on the *Zygaena*. These are Spuler, "*Die Schmetterlinge Europas*", Vol. 2, the *Zygaena* part of which has been incorrectly dated 1910 by earlier authors, and Seitz, "*Die Gross-Schmetterlinge der Erde*", Vol. 2, which has also been dated 1910. The work of Spuler was published in parts, the dates of which are shown on the reverse side of the page entitled "Schlusswort". The parts on the *Zygaena* were published in 1906 and the "Nachtrag", which contains references to the *Zygaena*, in 1910. Spuler's "Die Raupen" was also published in 1910. The part on the *Zygaena* by Seitz was published in 1907 and evidence of this is supplied by Griffin (1936: 261), and also by Dziurzyński (1908: 17), who refers to Seitz under *Z. brizae* Esper ab. *cingulata* Seitz and dates the work 1907. Holik & Sheljuzhko (1956: 119) considered the date of publication to be 1908 but the citation of Dziurzyński proves this to be incorrect.

Z. laeta occidentissima Holik ab. ***pseudomannerheimi*** Burgeff

Z. laeta occidentissima Holik ab. *pseudomannerheimi* Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 41.

Z. laeta occidentissima Holik ab. *pseudoorientis* Holik, 1935, *Sborn ent. Odd. nár. Mus. Praze*, **13**: 57, 64, fig. 21 (**syn. nov.**).

Holik proposed the name *pseudoorientis* Holik to replace the name *pseudomannerheimi* Burgeff but, as the latter is not preoccupied, *pseudoorientis* Holik is an unnecessary replacement name and is placed as a synonym.

Z. purpuralis rosea Burgeff

Z. purpuralis rosea Burgeff, 1914, *Mitt. münch. ent. Ges.*, **5**: 44.

Z. purpuralis rosalis Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 14 (**syn. nov.**).

The name *rosalis* Burgeff, 1926, was proposed to replace the name *rosea* Burgeff, 1914. However, the latter name is not preoccupied by the earlier, infrasubspecific names of other authors. The name *rosalis* Burgeff, 1926, is an unnecessary replacement name and is now placed as a synonym of *rosea* Burgeff, 1914.

Z. purpuralis rebeli Drenowski

Z. purpuralis rebeli Drenowski, 1928, *Spis. blg. Akad.*, **27**: 211.

Z. purpuralis drenowskii Holik, 1937, *Mitt. münch. ent. Ges.*, **27**: 1 (**syn. nov.**).

Holik proposed the name *drenowskii* Holik to replace the name *rebeli* Drenowski, 1928, which he considered to be invalid, as the description was published in Bulgarian and was not accompanied by a Latin diagnosis. Holik considered the name *rebeli* Reiss, 1932 (ssp. of *graslini* Lederer) to be valid but this is a junior, primary homonym of *rebeli* Drenowski, 1928. A new name is proposed to replace *rebeli* Reiss later in this paper. The name *drenowskii* Holik, 1937, is an unnecessary replacement name and is now placed as a synonym of *rebeli* Drenowski, 1928, which is valid.

Z. purpuralis reissi Burgeff

Z. purpuralis reissi Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 13.

Z. purpuralis reissiana Burgeff, 1926, in Strand, *Lepid. Cat.*, **33**: 8 (**syn. nov.**).

Burgeff proposed the name *reissiana* Burgeff, 1926, to replace the name *reissi* Burgeff, 1926, as he considered the latter to be preoccupied by *reissi* Stauder, 1922 (ab. of *oxytropis* Boisduval). As *reissi* Stauder has no status in nomenclature, the name *reissi* Burgeff, 1926, is valid and *reissiana* Burgeff, 1926, being an unnecessary replacement name, is placed as a synonym.

Z. felix felix Oberthür

Z. felix felix Oberthür, 1876, *Études d'Entomologie*, **1**: 36; 1878, *ibidem*, **3**: 41, pl. 5, fig. 4.

Z. eudaemon Mabille, 1885, *Bull. Soc. philom. Paris* (7) **9**: 57.

Z. felix andalusiae Burgeff, 1914, *Mitt. münch. ent. Ges.*, **5**: 53 (**syn. nov.**).

Burgeff described, from a series of specimens purported to have been taken in Andalusia by Korb, a subspecies of *felix* Oberthür under the name *andalusiae* Burgeff. There are no authentic records of the species occurring in Andalusia and we originally suspected that the specimens might prove to be the closely allied species *beatrice* Przegendza (*felix auctorum*) from west Algeria and Morocco. Prof. Burgeff, however, has very kindly supplied us with a photograph of the type series and the genitalia of the type ♂ in his collection. The genitalia agree with those of the true *felix* Oberthür and the photograph shows typical specimens

of the nominate subspecies. We therefore consider that the type series of *andalusiae* Burgeff originated from east Algeria and we place the name as a synonym of *felix felix* Oberthür.

Z. felix constantinensis nom. nov.

Z. felix faustula Reiss, 1933, in Seitz, Die Gross-Schmetterlinge der Erde, Supplement, 2: 272 (preoccupied).

Z. felix Oberthür ab. *faustula* Staudinger, 1887, *Berl. ent. Z.*, 31: 37 (infrasubspecific).

Staudinger originally described *faustula* Staudinger as an aberration. In 1933, Reiss quite justifiably raised the name to subspecific status and, according to the Rules of Nomenclature, the subspecific name *faustula* should date from 1933 and be attributed to that author and not to Staudinger. However, *faustula* Reiss, 1933, is a junior, primary homonym of *faustula* Rambur, 1866 (= *fausta genevensis* Millièrè, 1861). We propose the name **constantinensis nom. nov.** to replace the name *faustula* Reiss, 1933. The name *faustula* Staudinger, 1887, being infrasubspecific, has no status in nomenclature but, for convenience, is placed in synonymy under *constantinensis* nom. nov.

Z. cocandica cocandica Erschoff ab. **fumosa ab. nov.**

We propose naming the melanic aberration of *cocandica* Erschoff, figured by Burgeff (1906: 161, fig. 2; 1914: 52, pl. 6, fig. 54), ab. **fumosa ab. nov.** The specimen has spots 3, 4, 5 and 6 darkened with black scales. Type ♂ in H. Burgeff collection.

Z. algira algira Boisduval ab. **barraguei nom. nov.**

Z. algira algira Boisduval ab. *aurantiaca* Barragué, 1961, *Alexanor*, 2: 135, 136 (preoccupied).

The name *aurantiaca* Barragué, 1961, is preoccupied by *aurantiaca* Holl, 1912 (ab. of *algira algira* Boisduval). The former is a true, genetical, orange aberration while the latter is merely tinged with orange in places and is probably only a pathological form. Mr. G. Barragué (*in lit.*) has agreed that we should re-name the genetical, orange form described by him. We propose the name **barraguei nom. nov.** to replace the name *aurantiaca* Barragué, 1961.

Z. algira exigua Rothschild

Z. algira exigua Rothschild, 1917, *Novit. zool.*, 24: 340.

Z. algira Boisduval ab. *exigua* Seitz, 1907, Die Gross-Schmetterlinge der Erde, 2: 29, pl. 8a (infrasubspecific).

Seitz originally described *exigua* Seitz as an aberration of *algira* Boisduval, but Rothschild, recognising it as a subspecies, raised it to subspecific rank in 1917. According to the Rules of Nomenclature, the subspecific name *exigua* should be attributed to Rothschild and date from 1917. The infrasubspecific name *exigua* Seitz, 1907, is placed, for convenience, in synonymy under *exigua* Rothschild, 1917. Rothschild cited as type localities, Batna, Lambessa and Khenchela, Algeria.

Z. fausta oranoides de Sagarra ab. **disjuncta** de Sagarra

Z. fausta oranoides de Sagarra ab. *disjuncta* de Sagarra, 1925, *Butll. Inst. catal. Hist. nat.* (2) 5: 274.

Z. fausta oranoides de Sagarra ab. *sagarrai* Reiss, 1930, in Seitz, Die Gross-Schmetterlinge der Erde, Supplement, 2: 25 (**syn. nov.**).

The name *sagarrai* Reiss was proposed to replace the name *disjuncta* de Sagarra, 1925, but the latter is not preoccupied by *Z. occitanica disjuncta* Spuler, 1906. The name *sagarrai* Reiss, 1930 is an unnecessary replacement name and is now placed as a synonym of *disjuncta* de Sagarra, 1925.

Z. carniolica onobrychis Denis & Schiffermüller ab. **nigra** Reiss

Z. carniolica onobrychis Denis & Schiffermüller ab. *nigra* Reiss, 1926, *Int. ent. Z.*, 20: 217.

Z. carniolica onobrychis Denis & Schiffermüller ab. *totanigra* Reiss, 1930, in Seitz, Die Gross-Schmetterlinge der Erde, Supplement, 2: 30, pl. 3d (**syn. nov.**).

The name *nigra* Reiss, 1926, is not preoccupied and *totanigra* Reiss, 1930, is an unnecessary replacement name and is placed as a synonym.

Z. carniolica formidacola nom. nov.

Anthrocera carniolica magnaustralis Verity, 1946, *Redia*, 31:66 (preoccupied).

The name *magnaustralis* Verity, 1946, is a junior secondary homonym of *Z. trifolii magnaustralis* verity, 1926. We propose the name **formiacola nom. nov.** to replace the name *magnaustralis* Verity, 1946.

Z. carniolica sagarraiana nom. nov.

Z. carniolica catalonica de Sagarra, 1940, VI Congr. int. Ent., Madrid, p. 392 (preoccupied).

We propose the name **sagarraiana nom. nov.** to replace the name *catalonica* de Sagarra, 1940, which is preoccupied by *Z. hilaris catalonica* de Sagarra, 1924.

Z. carniolica gaumaisiensis Holik

Z. carniolica gaumaisiensis Holik, 1936, *Lambillionea*, 36: 182.

Z. carniolica Scopoli ab. *torgniensis* Lambillion, 1909, *Rev. Soc. ent. namur.*, 9: 75 (infrasubspecific).

Holik attributed the names ab. *dissociata* Lambillion, ab. *albilunaris* Lambillion, ab. *adunata* Lambillion, ab. *rubricostata* Lambillion, ab. *faustoides* Lambillion, ab. *flavicostata* Lambillion and ab. *torgniensis* Lambillion to Cabeau. These names were originally manuscript names of Cabeau, but should be attributed to Lambillion who first published them in 1909. The name *torgniensis* Lambillion represents the typical form, but being infrasubspecific, has no status in nomenclature and, for convenience, is placed in synonymy under *gaumaisiensis* Holik.

Z. carniolica berolinensis Lederer

Z. carniolica berolinensis Lederer, 1853, *Verh. zool.-bot. Ver. Wien*, 2: 102.

Z. carniolica berolinensis Staudinger, 1871, in Staudinger & Wocke, *Catalog der Lepidopteren des Europaischen Faunengebiets*, p. 49 (**syn. nov.**).

This subspecies of *carniolica* Scopoli from the neighbourhood of Berlin was first described by Lederer as ssp. *berolinensis* Lederer in 1853. In 1871, Staudinger described the same subspecies as *berolinensis* Staudinger which, in addition to being synonymous, is also a junior, primary homonym.

Z. exulans apennina Rebel

Z. exulans apennina Rebel, 1910, *Verh. zool.-bot. Ges. Wien*, **60**: (5).

Z. exulans abruzzina Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 25 (**syn. nov.**).

The name *apennina* Rebel, 1910, is valid and is not preoccupied by the earlier, infrasubspecific names of other authors. The name *abruzzina* Burgeff, 1926, is an unnecessary replacement name and is therefore placed as a synonym of *apennina* Rebel, 1910.

Z. loti ligustica Rocci ab. **latomarginata** Rocci

Z. loti ligustica Rocci ab. *latomarginata* Rocci, 1915, *Atti Soc. ligust. Sci. nat. geogr.*, **25**: 112, pl. 1, figs. 6b, 10c, 11c.

Z. loti ligustica Rocci ab. *latemarginata* Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 36 (**syn. nov.**).

The name *latomarginata* Rocci, 1915, is not preoccupied by *latomarginata* Tutt, 1899 (f. of *loniceræ transferens* Verity) as both names have no status in nomenclature and are infrasubspecific. The name *latemarginata* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *latomarginata* Rocci, 1915.

Z. loti ligustica Rocci ab. **diaphana** Rocci

Z. loti ligustica Rocci ab. *diaphana* Rocci, 1915, *Atti Soc. ligust. Sci. nat. geogr.*, **25**: 115.

Z. loti ligustica Rocci ab. *translucens* Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 36 (**syn. nov.**).

Burgeff proposed the name *translucens* Burgeff, 1926, to replace the name *diaphana* Rocci, 1915, but the latter is not preoccupied by the species name *diaphana* Staudinger, 1887. The name *translucens* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *diaphana* Rocci, 1915.

Z. loti ruberrima Verity

Z. loti ruberrima Verity, 1920, *Boll. Lab. Zool. Portici*, **14**: 37.

Z. loti maximerubra Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 33 (**syn. nov.**).

The subspecific name *ruberrima* Verity, 1920, is not preoccupied by the earlier, infrasubspecific names of other authors and the name *maximerubra* Burgeff, 1926, is an unnecessary replacement name and is now placed as a synonym of *ruberrima* Verity, 1920.

Z. loti achilleae Esper ab. **grisea** Reiss

Z. loti achilleae Esper ab. *grisea* Reiss, 1922, *Int. ent. Z.*, **16**: 84.

Z. loti achilleae Esper ab. *flavogrisea* Burgeff, 1926, in Strand, *Lepid. Cat.*, **33**: 21 (**syn. nov.**).

The name *grisea* Reiss, 1922, is infrasubspecific and has no status in nomenclature. It is therefore not preoccupied by *Z. rhadamanthus grisea* Oberthür, 1909. The name *flavogrisea* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *grisea* Reiss, 1922.

Z. graslini rebeliana nom. nov.

Z. graslini rebeli Reiss, 1932, *Int. ent. Z.*, **26**: 275, figs. (preoccupied).

We propose the name **rebeliana** nom. nov. to replace the name *rebeli*

Reiss, 1932, which is a junior, primary homonym of *Z. purpuralis rebeli* Drenowski, 1928.

Z. ephialtes ephialtes Linné f. **trigonelloides** nom. nov.

Z. ephialtes ephialtes Linné f. *quinquemaculata* Vorbrodrt, 1913, in Vorbrodrt & Müller-Rutz, Die Schmetterlinge der Schweiz, 2: 276 (preoccupied).

Z. ephialtes ephialtes Linné f. *unipunctata* Vorbrodrt, 1913, in Vorbrodrt & Müller-Rutz, Die Schmetterlinge der Schweiz, 2: 276 (preoccupied).

We propose the name **trigonelloides** nom. nov. to replace the names *quinquemaculata* Vorbrodrt, 1913, and *unipunctata* Vorbrodrt, 1913. The former is preoccupied by *quinquemaculata* Vorbrodrt, 1913 (= *Z. ephialtes ephialtes* Linné f. *aemilii* Favre, 1897) while the latter is preoccupied by *unipunctata* Vorbrodrt, 1913 (= *Z. ephialtes ephialtes* Linné).

Z. ephialtes slabyi nom. nov.

Z. ephialtes montana Slabý, 1953, *Acta Mus. Silesiae*, 3 (A):46, figs. C3, D1 (preoccupied).

We propose the name **slabyi** nom. nov. to replace the name *montana* Slabý, 1953, which is a junior, primary homonym of *Z. loyselii montana* Rothschild, 1925.

Z. transalpina intermedia Rocci

Z. transalpina intermedia Rocci, 1914, *Atti Soc. ligust. Sci. nat. geogr.*, 24: 115.

Z. transalpina interjacens Burgeff, 1926, *Mitt. münch. ent. Ges.*, 16: 74 (**syn. nov.**).

Burgeff proposed the name *interjacens* Burgeff to replace the subspecific name *intermedia* Rocci, 1914. However, *intermedia* Rocci is valid and is not preoccupied by the earlier, infrasubspecific names of other authors. The name *interjacens* Burgeff, 1926, is an unnecessary replacement name and is therefore synonymous with *intermedia* Rocci, 1914.

Z. transalpina maritima Oberthür ab. **trimaculata** Oberthür

Z. transalpina maritima Oberthür ab. *trimaculata* Oberthür, 1909, *Études de Lépidoptérologie comparée*, 3, pl. 30, fig. 189.

Z. transalpina maritima Oberthür ab. *trimacula* Reiss, 1930, in Seitz, Die Gross-Schmetterlinge der Erde, Supplement, 2: 39 (**syn. nov.**).

The name *trimaculata* Oberthür, 1909, is not preoccupied and *trimacula* Reiss, 1930, is an unnecessary replacement name and is placed in synonymy.

Z. transalpina bavarica Burgeff

Z. transalpina bavarica Burgeff, 1921, *Mitt. münch. ent. Ges.*, 11: 102.

Z. transalpina boica Burgeff, 1926, *Mitt. münch. ent. Ges.*, 16: 80 (**syn. nov.**).

The subspecific name *bavarica* Burgeff, 1921, is valid and is not preoccupied by *bavarica* Burgeff, 1914, which is the name of a hybrid and, being infrasubspecific, has no status in nomenclature. The name *boica* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *bavarica* Burgeff, 1921.

Z. hippocrepidis jurassica Burgeff

Z. hippocrepidis jurassica Burgeff, 1914, *Mitt. münch. ent. Ges.*, 5: 65,

pl. 2, figs. 186, 187, pl. 4, figs. 124-128.

Z. hippocrepidis jurassicola Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 82 (**syn. nov.**).

The subspecific name *jurassica* Burgeff, 1914, is valid and is not preoccupied by *jurassica* Blachier, 1905, which is infrasubspecific. The name *jurassicola* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *jurassica* Burgeff, 1914.

Z. elegans Burgeff ab. **burgeffi** nom. nov.

Z. elegans Burgeff ab. *confluens* Burgeff, 1926, *Mitt. münch. ent. Ges.* **16**: 83 (preoccupied).

The name *confluens* Burgeff, 1926, is preoccupied by *confluens* Reiss, 1925 (= *Z. elegans* Burgeff ab. *splendida* Reiss, 1920). We propose the name **burgeffi** nom. nov. to replace the name *confluens* Burgeff, 1926.

Z. viciae nigrescens Reiss

Z. viciae nigrescens Reiss, 1921, *Int. ent. Z.*, **15**: 118.

Z. viciae nigrina Burgeff, 1926, in Strand, *Lepid. Cat.*, **33**: 49 (**syn. nov.**).

The subspecific name *nigrescens* Reiss, 1921, is valid and is not preoccupied by the name *nigrescens* Rocci, 1914, which is infrasubspecific. The name *nigrina* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *nigrescens* Reiss, 1921.

Z. trifolii caerulescens Burgeff

Z. trifolii caerulescens Burgeff, 1914, *Mitt. münch. ent. Ges.*, **5**: 62.

Z. trifolii Esper ab. *caerulescens* Oberthür, 1910, *Études de Lépidoptérologie comparée*, **4**: 493 (infrasubspecific).

From the Sierra de Alfacar, Oberthür described specimens of *trifolii* Esper, which he named ab. *caerulescens* Oberthür. In 1914, Burgeff recognised the Sierra de Alfacar populations as a subspecies and raised the name *caerulescens* to subspecific rank. According to the Rules of Nomenclature, the subspecific name *caerulescens* should be attributed to Burgeff and date from 1914. Tremewan (1961: 7) incorrectly attributed the subspecific name *caerulescens* to Reiss (1936: 90), not realising that the status had been previously raised to subspecific rank by Burgeff in 1914.

Z. loniceræ loniceræ Scheven ab. **diaphana** Burgeff

Z. loniceræ loniceræ Scheven ab. *diaphana* Burgeff, 1906, *Ent. Z.*, **20**: 163, fig. 10.

Z. loniceræ loniceræ Scheven ab. *translucens* Burgeff, 1926, *Mitt. münch. ent. Ges.*, **16**: 70 (**syn. nov.**).

The infrasubspecific name *diaphana* Burgeff, 1906, is not preoccupied by the species name *diaphana* Staudinger, 1887, and the name *translucens* Burgeff, 1926, is an unnecessary replacement name and is placed as a synonym of *diaphana* Burgeff, 1906.

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Orthoptera Notes from S.W. Britain, 1963

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I have decided in this paper to give the recently standardized and now generally accepted English names of the British Orthoptera (*q.v.*, Kevan, 1952, 1961) together with the scientific ones, on each occasion a species is mentioned for the first time. Thereafter, the scientific name only will be used. I feel justified in following this course, as these English names are to be used in Dr. D. R. Ragge's forthcoming book on the British Orthoptera in the "Wayside and Woodland" series.

Tettigonia viridissima L. (Great Green Bush-cricket)

On 14th September, Michael Kendall and I found this species very common in several places in north Somerset. It was to be heard stridulating in great numbers in the roadside hedgerows and fields all along the road over the Mendip Hills from Cheddar via Shipham to Churchill. It was also met with in profusion on the Somerset Levels at Ashcott, Buscott and Shapwick. A male from Ashcott which I released in my garden at Pill on 15th September immediately ate a blade of grass and then climbed a bramble bush and consumed a ripe blackberry, tearing the skin with its mandibles and imbibing the juice.

Pholidoptera griseoptera (De Geer) (Dark Bush-cricket)

The south-west of England is a real stronghold of this species and I again found it in abundance in many parts of north Somerset, including Pill, Portishead, Ashton Park (near Bristol), Failand, Cheddar, Churchill, Shipham, Ashcott, Buscott and Shapwick. In Gloucestershire, it is abundant at Shirehampton and along the cliff-tops of the Avon Gorge at Clifton and Durdham Downs.

In spite of the long and severe winter, I found the first very small nymph, at Pill, on 12th May, compared with 13th May in 1962. I heard the first adults stridulating on 5th August and the last on 5th November.

Conocephalus dorsalis (Latr.) (Short-winged Conehead).

On 14th September, Michael Kendall and I found this beautiful, active